Catalog # 10-2955

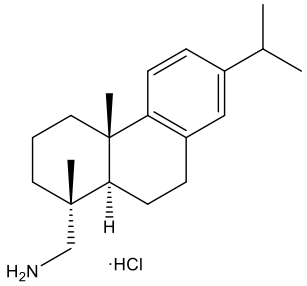
Leelamine HCl

CAS# 16496-99-4

Lylamine HCl; (+)-Dehydroabietylamine HCl

(1*R*,4a*S*,10a*R*)-1,2,3,4,4a,9,10,10a-Octahydro-1-,4a-dimethyl-7-(1-methylethyl)-1-phenanthrenemethanamine hydrochloride

Lot # S105130



A lysosomotropic, intracellular cholesterol transport inhibitor with potential chemotherapeutic activity. Induces cholesterol accumulation in lysosomal/endosomal cell compartments via inhibition of autophagic flux.[1] Induces apoptosis in breast cancer[2], melanoma[3] and prostate cancer cells[4]. A selective inducer of cytochrome P450 2B.[5] Inhibits pyruvate dehydrogenase kinase (PDK), IC_{50}=9.5 µM.[6]

1) Kuzu *et al*. (2014), *Leelamine mediated cancer cell death through inhibition of intracellular cholesterol transport*; Mol. Cancer Ther., **13** 1690
2) Sehrawat *et al*. (2017), *Cancer-selective death of human breast cancer cells by leelamine is mediated by bax and bak activation*; Am. Mol. Carcinolg., **56** 337
3) Chen *et al*. (2017), *Targeting cholesterol transport in circulating melanoma cells to inhibit metastasis*; Pigment Cell Melanoma Res., **30** 541
4) Singh *et al*. (2018), *Therapeutic Potential of Leelamine, a Novel Inhibitor of Androgen Receptor and Castration-Resistant Prostate Cancer*; Mol. Cancer Ther., **17** 2079
5) Sim *et al*. (2015), *Selective induction of hepatic cytochrome P450 2B activity by leelamine in vivo, as a potent novel inducer*; Arch. Pharm. Res., **38** 725
6) Aicher *et al*. (1999), *Triterpene and diterpene inhibitors of pyruvate dehydrogenase kinase (PDK)*; Bioorg. Med. Chem. Lett., **9** 2223

PHYSICAL DATA

Molecular Weight:	321.93
Molecular Formula:	$C_{20}H_{31}N \cdot HCl$
Purity:	98% by TLC
	NMR: (Conforms)
Solubility:	DMSO (up to 40 mg/ml) or Water (up to 9 mg/ml)
Physical Description:	Off-white or beige solid
Storage and Stability:	Store as supplied desiccated at -20°C for up to 2 years from the date of purchase. Solutions in DMSO or distilled water may be stored at -20°C for up to 1 month.

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